



NOTE



This file contains the PowerPoint presentation for the significant changes to the JFMM applicable to all with the exception of the Nuclear Addendum section (Part II of Volume V). It has been designed to work with a Word document file that provides the specific changes. The pages of this file correspond to the Word Document file (JFMM Rev A, Change 1 Training Notes.doc) included on this CD-ROM.



COMFLTFORCOMINST 4790.3A

Change 1

JFMM Volume I



NEW CONSTRUCTION



NSA/SA



Naval Supervisory Authority/Supervisory Authority

- Established Fleet definition of NSA/SA

Definition inserted in Appendix D:

- “The officer designated to represent the Navy Department at an industrial activity; normally a Supervisor of Shipbuilding (new construction), RMC (Conversion and Repair), or the Commander of a Naval Shipyard.”

Applied responsibilities in Volume II, Chapter 2.
inserted in Appendix

Volume I, Chapter 1, Appendix D; Volume II, Chapter 2, Paragraphs 2.2.2 & 2.1.2;



FTSC/RMC



FTSCLANT/FTSCPAC

- Fleet Technical Support Centers currently provide a wide array of technical support. F/Y05 will see the FTSC's transfer to Fleet control and continue operation under the local RMC.

Regional Maintenance Centers

- The local RMC's will assume the duties and function of the FTSC's with the exception of processing TFBR's. TFBR's will be processed by NAVSEALOGCEN. The entire manual has been adjusted to reflect the change.

Volume II, Chapter 2, Paragraphs 2.10.1.2; Throughout entire manual;



Post Shakedown Assessment



Pre-Critical Inspection Requirements.

- Deleted the Pre-Crit Inspection & Certification requirements from Volume I and referred to the existing paragraphs in Volume II.

Volume I, Chapter 6, Paragraph 6.3.4; Volume II, Chapter 3, Paragraphs 3.6.8.3 & 3.6.8.4;

JFMM Volume II



INTEGRATED FLEET
MAINTENANCE



Machinery Space Turnover



Key Events

- Renamed the Key Event previously known as “Machinery Space Turnover” to “Production Completion Date” to mark the to shift from a maintenance environment back to an operations environment.



Distress Transponder

SUBS ONLY



AN/BQA-8 or Equivalent.

- Deleted the requirement to install a Distress Transponder aboard submarines during Sea Trials
- Type Commander will require installation based on specific availability requirements



CNO Availabilities



Guarantee Engineer

- Expanded the requirement for the assignment of a Guarantee Engineer per NAVSEA Instructions for all ships that undergo CNO scheduled availabilities in Naval Shipyards.
- Previous JFMM required only submarines to appoint a Guarantee Engineer.



SUB SEA TRIAL DEPTH

SUBS ONLY



- Clarified the depth a submarine may transit to a port other than the overhauling activity at after the conclusion of Sea Trials.
- Previous Summary Of Significant Post Repair Sea Trial Requirements did not clearly indicate the depth as written in the text of the Chapter.



SUB SEA TRIAL DEPTH AUTHORIZATION

SUBS ONLY



- Clearly established the requirement to receive Type Commander approval prior to commencing a subsequent Deep Dive after performance of emergent repair in the SUBSAFE Boundary during Sea Trials.
- Previous sample message did not clearly indicate the REC certifying activity or the depth restriction until receipt of the URO message.



SHIPMAIN

- Added a new Part II to address SHIPMAIN specific items.
- New Part II, Chapter 1 specific to provide procedures and guidance regarding surface ship maintenance work candidate validation, screening and brokering processes.

JFMM Volume IV



TESTS AND INSPECTIONS



Diesel Engine Inspector



Inspection Reports

- Previous requirement was to leave a verbal report complete enough for maintenance managers and the Ship to determine the “as Found” condition of the engine, what actions were accomplished and what actions were recommended to correct outstanding deficiencies.
- DEI now required to provide
- (1) provide a maintenance ready 2 Kilo to the Ship’s 3M Coordinator for every discrepancy not corrected during the inspection, and,
- (2) to further detail the cause or conditions that lead to the discrepancy noted on the 2 Kilo or in the report.

Volume IV, Chapter 4, paragraph 4.4c



Work Authorization Form



Previous Requirement

- WAF's used for Submarines, Aircraft Carriers, for maintenance performed by Naval Shipyards, and their subcontractors on all naval ships and for maintenance performed by other industrial repair activities as specified by Memorandum of Agreement (MOA)

New Requirement

- **All** outside activity work on ship's systems and components, regardless of who performs the work, requires formal authorization through a Work Authorization Form (WAF) for the specific work to be accomplished. **This applies to all U.S. Naval ships in all types of maintenance availabilities, public and private.**



Weight Handling Equipment



Revised the JFMM to not require the use of a CWP for certain weight handling equipment re-certifications

- Added a new statement to clearly indicate the requirement to use a CWP does not apply to periodic weight test of WHE. WHE requiring a weight test solely based on PMS or other governing documents for periodic purposes can now be inspected and tested using a FWP.

Volume IV, Chapter 13, paragraph 13.2.2;



Salvage Inspection

SUBS ONLY



Standard Submarine Salvage Inspection Check Off List

- Modified Appendix A to include the Virginia Class and SSN 23 Salvage inspection requirements.
- Added the new Part II rescue requirements for Virginia Class, SSN 23, Sub Rescue Chamber, and DSRV.



Divers REC's

Maintenance and Certification

- Modified the chapter to provide updated guidance on certification requirements for Diver Life Support Systems (DLSS), Submarine Rescue Chambers (SRC), Dry Deck Shelters (DDS), VIRGINIA Class Lock-Out Trunks, SSGN Lock-Out Chambers and ASDS.
- Updated the procedure to agree with NAVSEA 00C directives.



Oxygen Systems

SUBS ONLY

Changed the Chapter title to

“Submarine Oxygen Generating Plants”

- Changed the time frame for PMT Oxygen Generator Inspectors to perform material inspections of the ship’s oxygen generators from “immediately” to “within 90 days”. (This change will permit PMT to inspect the generators in a timely manner prior to the start of the CNO Maintenance Availability and provide time for ship’s force planning of major maintenance or repair of the generators should that become a necessity.)
- Deleted all references to obsolete Oxygen Generators.



Gas Turbines

Gas Turbine Readiness Review

- Now require a formal tracking system for inspections conducted, and to inform TYCOMs of inspection results.

JFMM Volume V



QUALITY MAINTENANCE



Definitions



Added a Formal Definition for Naval Nuclear Maintenance Department

- To address Nuclear Regional Maintenance Departments under Volume V. These organizations perform the majority of all Nuclear Intermediate Level Nuclear maintenance and are now defined.



Fly-By-Wire

SUBS ONLY



Revised the entire Volume to incorporate Fly-By-Wire

- Fly-By-Wire is the new Ships Control System for SEAWOLF Class and VIRGINIA Class submarines
- Volume V now includes F-B-W requirements in the appropriate places similar to SUBSAFE and Scope of Certification.

Volume V



Antenna Work



Technical Work Documents for Antenna work.

- Restricted the need for using a TWD for antenna work to **SUBMARINES ONLY**.
- The type of work normally conducted on masts and antennas by surface ship personnel are either covered by PMS requirements or Technical Manual procedures and pose no threat to safety of personnel or equipment.



TWD Review and Approval Matrix



Modified the closing of FMA prepared TWD's for SUBSAFE, Scope of Certification and Nuclear work.

- Revised the matrix to require Department Head approval to be consistent with QA Form 9 Situation 2 signature requirements



Flange Face Surface Finish Requirements



Acceptance Criteria

- Deleted the entire sub-paragraph on acceptance criteria for flange sealing surfaces machined with concentric or phonographic lay
- New sub-paragraph points to NSTM 505



Retention Records



Reduced Size Records

- Modified the paragraph on the retention of reduced size records to permit the use of CD-ROM.
- Limited the use of CD-ROM's to record records in ".pdf" format only



QA Form 9: MAINTENANCE CERTIFICATION RECORD/RE-ENTRY CONTROL



Fly-By-Wire:

- Added a new check box “SFCC” to block 2 to indicate the work being performed is on a Submarine Flight Critical Component.
- This satisfies the requirement in NAVSEA T9044-AD-MAN-010 paragraph 5.5.1 to clearly mark control documents as SFCC for auditing purposes.



QA Form 12 Departure From Specification Request



Revised QA Form 12 to bring the form into compliance with the NAVSEA F-B-W Requirements Manual

- Added a new check boxes “FBW” and “SFCC” to block 7 to indicate the work being performed is on the Fly-By-Wire System or a Submarine Flight Critical Component.
- This satisfies the requirement in NAVSEA T9044-AD-MAN-010 paragraphs 5.4.3.1 and 5.5.1 to ensure all DFS’s are fully documented and maintained in an auditable form and are clearly marked control documents .



VOLUME VI



MAINTENANCE PROGRAMS



Hull Cleaning



NSTM 081

- Clarified the entire chapter to align with NAVSEA NSTM 081
- Specifically listed requirements and responsibilities for the On-Scene Navy Representative and the Quality Assurance Dive Team
- Updated reporting requirements and addresses.



Fleet Technical Assistance



Requesting Assistance

- FSTC's are being transferred to the Fleet RMC's
- Modified to process requesting Fleet Technical Assistance to reflect the Fleet Forces Command policy promulgated in COMFLTFORCOM NORFOLK R 291336Z DEC 03
- Listed all Regional Maintenance Centers and contact information.



Calibration

SISCAL Extensions

- Different processes existed among varying Type Commands
- Modified the paragraph to have one process for all COMNAVSURFOR ships.

Volume VI, Chapter 9, Paragraph 9.7.3.c;



Submarine Batteries



Readiness

- Specifically listed the requirement to evaluate the material condition of the battery and determine accuracy and completeness of battery records prior to Fast Cruise at completion of Depot Modernization Period, Engineered Refueling Overhaul or Engineered Overhaul
- This requirement is to ensure the Submarine Main Storage Battery and support systems are operable to support reactor plant and at-sea operations.



Surface Ship Maintenance Placement And Oversight Business Rules.



SHIPMAIN

- Established a new chapter to incorporate the Surface Ship Maintenance Placement And Oversight Business Rules originally put in place by COMNAVSURFORNOTE 4703
- Provide procedures and guidance regarding ship maintenance placement and oversight business rules.
- Affects Regional Maintenance Centers (RMC), Type Commanders (TYCOM) and Ship Maintenance Teams.



TOP MANAGEMENT ATTENTION TOP MANAGEMENT ISSUES



Tracking Maintenance Problems

- Established a new chapter to incorporate Top Management Attention
Top Management Issues
- Provides CFFC policy, procedures and standardized metrics for selecting systems/equipment to identify common maintenance issues between Fleets



Contract Administration QA Program



Relocated

- Moved from Volume V Part I Chapter 12 due to being more programmatic than QA

Contract Quality

- Added subparagraph 12 to address Government Contract Quality Assurance Actions At The Source



Fly-By-Wire

SUBS ONLY



Maintenance and Certification

- Established a new chapter to address certification requirements for Submarine Fly-By-Wire (FBW) Ship Control Systems (SCS).
- Applicable to VIRGINIA Class and SEAWOLF Class submarines and all future submarines that are designed with Fly-By-Wire technology.
- Program is similar to SUBSAFE and Scope of Certification.
- Technical Manual is NAVSEA T9044-AD-MAN-010



Regional Maintenance Centers



Organization

- Established a new chapter to detail the RMC's.
- Provides the standard outline for the RMC.
- Details the duties and responsibilities of the RMC departments.